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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/687,970		10/20/2003	Dwight Viehland	01640346AA	8672
30743	7590	07/21/2005		EXAM	INER
	-	IRTIS & CHRIST	LEDYNH, BOT L		
	11491 SUNSET HILLS ROAD SUITE 340				PAPER NUMBER
RESTON	-	0190		2862	

DATE MAILED: 07/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/687,970	VIEHLAND ET AL.					
Office Action Summary	Examiner	Art Unit					
	Bot LeDynh	2862					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communication. 35 U.S.C. 8 133).					
Status							
1) Responsive to communication(s) filed on	_•						
2a) ☐ This action is FINAL . 2b) ☐ This	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.							
	4a) Of the above claim(s) 4.11,13,14 and 17 is/are withdrawn from consideration.						
_	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,5-7,15 and 18</u> is/are rejected. 7)⊠ Claim(s) 3,8-10,12,16 and 19 is/are objected to							
7) Claim(s) 3.8-10,12,16 and 19 is/are objected to 8) Claim(s) are subject to restriction and/or							
or Grain(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner	•						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the o	Irawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction							
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
application from the International Bureau		ν) (
* See the attached detailed Office action for a list of the certified copies not received.							
		Pat Lacture					
	ı	Bot Ledynh Primary Examiner					
Attachment(s)		·					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Linterview Summary (Paper No(s)/Mail Dat						
3) M Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal Pa						
Paper No(s)/Mail Date <u>2/26/04&6/23/04</u> .	6)						

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Art Unit: 2862

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 5-7,15, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwasaki et al (6387476 B1). Iwasaki et al discloses the same invention as claimed: magnetostrictive layer (63, 52, 53 (second layer) or 13), piezoelectric layer 62 or 12, field over 100 Oe (Figs.4A-C), means for creating the bias field (the field direction in Fig.2A or the voltage source in Figs. 2 and 15), the thickness ratio would be within 25% or 50% of a value given by equation 4. However, Iwasaki et al does not discloses L/T greater than 1. In the absence of criticality, the dimension of layer 63 is a matter of design choice, depending on the size of electrode 64. It would have been obvious to one of skill in the art to modify Iwasaki et al by forming layer 3 which has L/T>1 or L/T>1.5 or L/T>2. depending on the size of electrode 64 in order to provide good contacts with the electrode.

Allowable Subject Matter

Claims 3, 8-10, 12, 16 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Bot LeDynh whose telephone number is 5712722231. The examiner can normally be reached on Maxiflex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 5712722180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BL/ 2005

Bot LeDynh, J.D., Ph.D., D.A.

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Primary Examiner